

## Patent Abstracts of Japan

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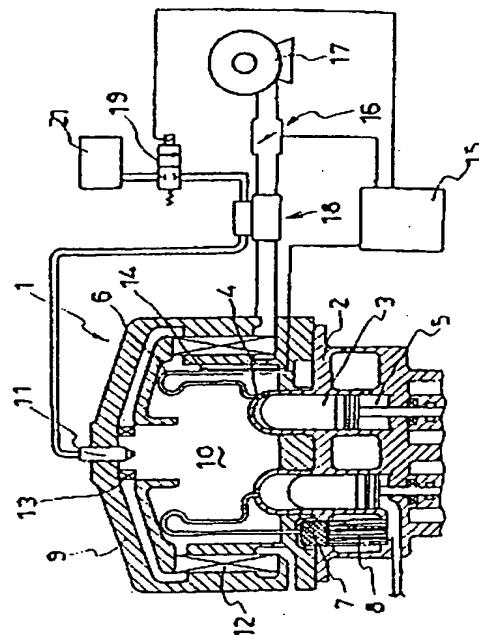
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APPLICANT : AISIN SEIKI CO LTD;

INVENTOR : KURAZONO SOICHI;

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TITLE : COMBUSTION CONTROL DEVICE FOR  
 STIRLING ENGINE



ABSTRACT : PURPOSE: To prevent the outflow of fuel at the time of accidental fire with a simple structure by judging a flame in a combustion chamber to be extinct when the temperature rate-of-change detected by a temperature detecting means provided for combustion control becomes lower than the specified value and thereby forbidding fuel supply.

CONSTITUTION: In a Stirling engine 1, an air flow regulating valve 16 is controlled by an electric control unit 15 according to signals from a temperature sensor 14 in such a way that the control temperature of a heater tube 6 in the stable rotating state of the engine becomes the set temperature decided by the operating gas pressure in the full load state of the engine and the like. In this case, the rate of change  $T_d$  in the specified time of a temperature signal detected by the temperature sensor 14 is obtained and compared to the specified temperature rate-of-change  $T_2$ . In case of  $T_d < T_2$ , a flame in a combustion chamber 10 is judged to be extinct, and a fuel feed change over valve 19 for feeding fuel to an air-fuel ratio setting means is from a fuel source 21 is forcibly closed so as to forbid fuel supply to the combustion chamber 10.

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